	Substitute for form	1449/F	то		Complete if Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			SURE	Application Number	09/896,797
				Filing Date	6/29/2001
				First Named Inventor	John Trezza
	Date Submitted: Nove	emper	14, 2008	Art Unit	2613
	(use as many sheets	as ne	cessarv)	Examiner Name	Agustin Bello
Sheet	1	of	10	Attorney Docket Number	088245-4667

			U.S. PATENT DO	CUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		3,825,318	7/23/1974	Croset et al.	
		4,202,007	5/6/1980	Dougherty et al.	
		4,230,385	10/28/1980	Ammon et al.	
		4,481,403	11/6/1984	Del Monte	
		4,719,498	1/12/1988	Wada et al.	
		4,741,595	5/31/1998	Onoda et al.	
		4,744,627	5/17/1988	Chande et al.	
		4.815,805	3/28/1989	Levinson et al.	
		4.842,360	6/27/1989	Caro et al.	
		4,966,432	10/30/1990	Okada et al.	
		5,091,018	2/25/1992	Fraas et al.	
		5,100,480	3/31/1992	Hayafuji	
		5,136,152	8/4/1992	Lee	
		5,149,958	9/22/1992	Hallenbeck et al.	
		5,175,928	1/5/1993	Grabbe	
		5,212,707	5/18/1993	Heidel et al.	
		5,214,730	5/25/1993	Nagasawa et al.	
		5.243.681	9/7/1993	Bowen et al.	
	-	5.268.786	12/7/1993	Matsushita et al.	
	-	5.259.052	11/2/1993	Briggs et al.	
	†	5,319,655	6/7/1994	Thornton	
		5,359,208	10/25/1994	Katsuki et al.	
		5.379.361	1/3/1995	Maekawa et al	
		5,400,429	3/21/1995	Ames et al.	
		5,408,319	4/18/1995	Halbout et al.	
		5,416,624	5/16/1995	Karstensen	
	_	5,434,939	7/18/1995	Matsuda	
		5,470,787	11/1995	Greer	
		5,472,914	12/5/1995	Martin et al.	
	1	5,473,716	12/5/1995	Lebby et al	
	1	5,475,701	12/12/1995	Hibbs-Brenner	
		5,479,288	12/26/1995	Ishizuka et al.	
		5,488,504	1/30/1996	Worchesky et al.	
		5,491,712	2/13/1996	Lin et al.	
	+	5.521.734	5/28/1996	Frigo	
	 	5,523,628	06/04/1996	Williams et al.	

Examiner Signature	/Agustin Bello/ (06/30/2010)	Date Considered	
Signature	(**************************************	with MDED 600. Describes through citation if not in conformance and not of	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not con Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (polican). 2 See (kinds Codes of USPTO Patent Documents at www.uspib.gov or MPEP 901.04.3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to Into consciont or information is required by 3 r Let 1.54 and 1.50. In en numberon is required to obtain or results an exerted by the public which is to the days of the conscious and public which is to the days of the conscious and the conscious 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute	for form 1449/	PTO		Complete if Known			
INFORMA'	TION DISCLO	SURE	Application Number	09/896,797			
			Filing Date	6/29/2001			
Date Submitted: November 14, 2008			First Named Inventor	John Trezza			
			Art Unit	2613			
(use as many	sheets as ne	ecessary)	Examiner Name	Agustin Bello			
2	of	10	Attorney Docket Number	088245-4667			
	INFORMA' STATEME Date Submitte	INFORMATION DISCLO STATEMENT BY APPL Date Submitted: November (use as many sheets as no	(use as many sheets as necessary)	INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 14, 2008 (use as many sheets as necessary) Application Number Filling Date First Named Inventor Art Unit Examiner Name	INFORMATION DISCLOSURE		

	U.S. PATENT DO	CUMENTS	
	U.S. PATENT DO	CUMENIS	
Document Number			
5,568,574	10/22/1996	Tanguay et al.	
5,577,064	11/19/1996	Swirhun et al.	
5,579,426	11/26/1996	Li et al.	
5,598,965	02/1997	Scheu	
5,608,264	03/04/1997	Gaul	
5,612,968	3/18/1997	Zah	
5,613,024	3/18/1997	Shahid	
5,617,492	4/1/1997	Beach et al.	
5,633,967	5/27/1997	Haruta	
5,635,014	06/1997	Taylor	
5,636,052	6/3/1997	Arney et al.	
5,664,039	9/2/1997	Grinderslev et al.	
5,671,311	9/23/1997	Stillie et al.	
5,674,778	10/7/1997	Lee et al.	
5,708,569	01/13/1998	Howard et al.	
5,729,038	3/17/1998	Young et al.	
5,743,785	4/28/1998	Lundberg et al.	
5,751,757	5/12/1998	Jiang et al.	
5,761,350	6/2/1998	Koh	
5,764,392	6/9/1998	Van As et al.	
5,853,626	12/29/1998	Kato	
5,861,968	1/19/1999	Kerklaan et al.	
5,909,294	6/1/1999	Doerr et al.	
5,914,976	6/22/1999	Jayaraman et al.	
5,962,846	10/5/1999	Goossen	
5,963,793	10/05/1999	Rinne	
5,978,401	11/2/1999	Morgan	
6,018,604	1/25/2000	Ja	
6,021,149	2/1/2000	Miyazaki et al.	
6,022,760	2/8/2000	Lebby et al.	
6,023,361	2/8/2000	Ford et al.	
6,046,659	4/4/2000	Loo et al.	
6,075,710	6/13/2000	Lau	
6,084,848	7/4/2000	Goto	
6,153,927	11/28/2000	Raj et al.	
6,167,075	12/26/2000	Craig et al.	
6,174,424	1/16/2001	Wach et al.	
6,184,066	2/6/2001	Chino et al	
6,188,118	02/2001	Severn	

Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to

process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERC Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

	Substitute for	form 1449/F	PTO		Complete if Known	•
	INFORMATIO	N DISCLO	SURE	Application Number	09/896,797	
	STATEMENT			Filing Date	6/29/2001	
				First Named Inventor	John Trezza	
	Date Submitted: I	November	14, 2008	Art Unit	2613	
	(use as many sh	eets as ne	cessarv)	Examiner Name	Agustin Bello	
Sheet	3	of	10	Attorney Docket Number	088245-4667	

	U.S. PATENT DO	CUMENTS	
Document Number			
 6,246,813	6/12/2001	Zheng	
6,292,529	9/18/2001	Marcovici et al.	
6,296,779	10/2/2001	Clark et al.	
6,317,235	11/13/2001	Hamilton	
6,318,909	11/20/2001	Giboney et al.	
6,324,316	11/27/2001	Fouquet et al.	
 6.328,482	12/11/2001	Jian	
 6,379,053	4/30/2002	van Doorn	
 6,423,561	7/23/2002	Chino et al.	
 6,438,150	8/20/2002	Yoo	
 6,440,767	8/27/2002	Loo et al.	
 6,442,306	8/27/2002	Dautartas et al.	
 6,451,626	09/17/2002	Lin	
 6,479,844	11/12/2002	Taylor	
 6,483,862	11/19/2002	Aronson et al.	
 6,485,993	11/26/2002	Trezza et al.	
 6,498,089	12/24/2002	Komada	
 6,504,975	1/7/2003	Yamaqata et al.	
 6.522,794	2/18/2003	Bischel et al.	
 6,532,101	3/11/2003	Islam et al.	
 6,544,371	04/08/2003	Senoo	
 6.553.044	4/22/2003	Eden	
 6,558,976	5/6/2003	Shrauger	
 6,586,090	07/01/2003	Nakagawa et al.	
 6,635,960	10/21/2003	Farrar	
 6,666,590	12/23/2003	Brosnan	
 6,686,654	02/03/2004	Farrar	
 6,751,379	6/15/2004	Capewell et al.	
 6,768,403	7/27/2004	Hsu et al.	
 6,780,280	08/1004	Halterbeck et al.	
 6,785,447	8/31/2004	Yoshimura et al.	
 6.888.170	5/3/2005	Schaff et al.	
 6,967,307	11/22/2005	Hembree et al.	
 6.993.258	1/31/2006	Payne et al.	
 7,012,943	3/14/2006	Tran et al.	
 7,012,543	5/9/2006	Miles	
 7,107,666	09/19/2006	Hiatt et al.	
 7,107,000	1/30/2007	Kim Bong Chan	
 7,170,183	01/02/2007	Trezza	

Examiner Signature	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. I Applicants unique clustion designation number (optional), 2 see Krinds Codes of USPTO Platent Drouments are www.uspt.og.or vMEP 90 (10.4 S. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3), 4 For Japanese painer documents, the indication of the year of the reign of the Emperor must precede the senial number of the patent document. S. Kind of comment by the appropriate symbols as indicated on the document under VIPO Standard ST.1 if possible. 6 Applicant is to place a check mark here it English language Translation is statched.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 33 U.S. 1.22 and 37 CFR 1.1.4. This collection is estimated to take a Pour to confidentially is governed by 33 U.S. 1.22 and 37 CFR 1.1.4. This collection is estimated to take a Pour to confidentially including aphtering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suppositions for reducing this burden, should be sent to the Chell Information Officer, U.S. Petern and Trademark Office, P.O. Dox 1.450, Alexandria, VA 22313-1.450. ON TS END TEES OR COMMETETE OF CRMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Dox 1.450, Alexandria, VA 22313-1.450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

	Substitute fo	r form 1449/I	PTO		Complete if Known		
	INFORMATIO	N DISCLO	SURE	Application Number	09/896,797		
	STATEMENT	BY APPLI	CANT	Filing Date	6/29/2001		
	D 1 0 1 1 1 1	Maria	44 2000	First Named Inventor	John Trezza		
	Date Submitted:	November	14, 2006	Art Unit	2613		
	(use as many sheets as necessary)			Examiner Name	Agustin Bello		
Sheet				Attorney Docket Number	088245-4667		

U.S. PATENT DOCUMENTS						
Document Number						
7,227,213	06/05/2007	Mastromatteo et al.				
 7,242,099	07/10/2007	Lin				
7,276,787	10/02/2007	Edelstein et al.				
7,294,531	11/13/2007	Hwang et al.				
 7,300,865	11/27/2007	Hsieh et al.				
 7,371,676	5/13/2008	Hembree				
 2001/0051026	12/13/2001	Steinberg et al.				
2002/0090749	7/11/2002	Simmons				
2002/0141011	10/3/2002	Green et al.				
 2004/0029304	02/2004	Naydenkov et al.				
 2005/0094926	5/5/2005	Dominic et al.				
 2005/0230804	10/20/2005	Tanida et al.				
 2006/0128061	06/2006	Ravi et al.				
 2006/0278988	12/14/2006	Trezza				
2006/0289990	12/28/2006	Farrar				
2007/0096263	05/2007	Furukawa et al.				
 2007/0278641	12/06/2007	Trezza				
2008/0029851	02/2008	Kirby et al.				

			FOREIGN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		DE 19838430	3/9/2000	Fraunhofer Ges Forschung		<u> </u>
		DE 3634187	4/7/1988	Kropp		_
		JP 11-307869	11/5/1999	Furukawa Electric Co. Ltd.		
		JP 11-163528	6/18/1999	Ibiden Co. Ltd.		
		JP 08-111559	4/30/1996	Hitachi Ltd.		-
		JP 08-181372	7/12/1996	Hitachi Ltd.		1
		JP 04-003029	1/8/1992	Fujitsu Ltd.		
		JP 04-107974	4/9/1992	Fujitsu Ltd.		
		JP 2000-307025	11/2/2000	Matsushita Electric Ind. Co. Ltd.		_
		EP 0760544	3/5/1997	Kabushiki Kaisha Toshiba		_
		EP 0987800	3/22/2000	Seiko Epson Corp.		
	-	WO 01/69675	9/20/2001	Kevin Kwong Tai Chung		-
		WO 99/15926	4/1/1999	Althaus et al.		

Examiner	Date
Signature	Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1,97 and 1,98. The information is required to a botain or relation a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, process) an approximation of commentation is governed by 30 Country (see all 20 Country (see a country)) and submitting the completed application form to the USPTO. Time will vary depending upon the individual case, Any comments on the amount of time, you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERC Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

$\overline{}$	Substitute for form	1449/F	TO		Complete if Known	`
	INFORMATION DI	SCLOS	SURE	Application Number	09/896,797	
	STATEMENT BY A	APPLIC	CANT	Filing Date	6/29/2001	
			44 0000	First Named Inventor	John Trezza	
	Date Submitted: Nove	ember	14, 2006	Art Unit	2613	
	(use as many sheets	as nec	essary)	Examiner Name	Agustin Bello	
Sheet	5	of	10	Attorney Docket Number	088245-4667	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		Copy of the First Office Action in Chinese Application No. 028130987 dispatched on September 15, 2006.	
		Copy of the Second Office Action in Chinese Application No. 028130987 mailed on June 22, 2007.	
		Copy of the Third Office Action in Chinese Application No. 028130987 mailed on April 4, 2008.	
		Copy of the First Office Action for Chinese Application No. 028130901 mailed on February 24, 2006.	
		Copy of the First Office Action for Chinese Application No. 028131851 dispatched on September 1, 2006.	
		Copy of the Second Office Action for Chinese Application No 028131851 dispatched on March 16, 2007.	T
		Copy of the First Office Action for Chinese Application No. 028130979 dispatched on July 15, 2005.	T
		Copy of the First Office Action for Chinese Application No. 028130898 dispatched on August 12, 2005.	
		Copy of the Second Office Action for Chinese Application No. 028130898 dispatched on March 2, 2007.	
	-	Copy of the First Office Action for Chinese Application No. 02813100.2 dispatched on September 2, 2005.	T
		Copy of the Communication for EP Application No. 02 73 9971.6 dated March 15, 2006.	T
		Copy of the Communication for EP Application No. 02 73 9971.6 dated May 20, 2005.	T
		Copy of the Communication for EP Application No. 02 73 9971.6 dated August 2, 2004.	T
		Copy of the Supplementary European Search Report for EP Application No. 02 74 9716 completed on February 13, 2007.	T
		Copy of the Supplementary European Search Report for EP Application No. 02 74 9717 completed on January 26, 2005.	
		Copy of the Communication for EP Application No. 02 74 9717.1 dated March 24, 2005.	T
		Copy of the Communication for EP Application No. 02 74 9717.1 dated December 23, 2005.	T
		Copy of the Supplementary European Search Report for EP Application No. 02 75 3369 completed on July 7, 2005.	
		Copy of the Supplementary European Search Report for EP Application No. 02 79 8907 completed on July 13, 2005.	

Examiner Signature	Date Considered	
*EXAMINER: Initial	al if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if no	in conformance and not considered.

Include copy of this form with next communication to applicant. I Applicant's unique citation designation number (optional). 2 See Kinks Codes of USPTO Patent Documents and www.uspt.gov.ov.ov.MEPP 2010.4.8 Either (Office that issued the document, by the wholester code (WIPO Standard ST.).4 For Japanese patent documents, the indication of the vegen of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached, which will be appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CPR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentality is governed by 38 USS. C.122 and 37 CPR 1.1.4 This collection is estimated to take 2 founds to compare the properting.

process) an application. Confidentally by an one of the confidence of the confidence

PTO/SB/08 (09-06) Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

number.								
$\overline{}$	Substitute for form 1449/PTO					(Complete If Known	•
INFORMATION DISCLOSURE						Application Number	09/896,797	1
	STATEMENT BY APPLICANT					Filing Date	6/29/2001	4
Date Submitted: November 14, 2008 (use as many sheets as necessary)						First Named Inventor	John Trezza	_
						Art Unit	2613	_
						Examiner Name	Agustin Bello	_
Sheet						Attorney Docket Number	088245-4667	1

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
		Copy of the Supplementary European Search Report for EP Application No. 02 75 3370 completed on February 8, 2007.	
		Copy of the Communication for EP Application No. 02 75 3370.2 dated May 7, 2007.	
		Copy of the Communication for EP Application No. 02 75 6474.9 dated August 6, 2008.	
	_	Copy of the Communication for EP Application No. 02 75 6474.9 dated March 10, 2005.	
		Copy of the Supplementary European Search Report for EP Application No. 04 81 6927.0 completed on January 10, 2008.	
	_	Copy of the Communication for EP Application No. 04 81 6927.0 dated on April 10, 2008.	
		Copy of the International Search Report and Written Opinion for PCT/US2002/020112 mailed on December 13, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/020112 completed November 13, 2003.	
		Copy of the International Search Report for PCT/US2002/020695 mailed on October 18, 2002.	
		Copy of the Written Opinion for PCT/US2002/020695 mailed on May 1, 2003.	L
		Copy of the International Preliminary Examination Report for PCT/US2002/020695 completed on August 8, 2003.	
		Copy of the International Search Report for PCT/US2002/020696 mailed on December 12, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/020696 completed on March 4, 2003.	
		Copy of the International Search Report for PCT/US2002/020699 mailed on November 7, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/020699 completed on March 7, 2003.	
		Copy of the International Search Report for PCT/US2002/022051 mailed on November 27, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/022051 completed on March 17, 2004.	

Examiner Signature	Date Considered	
-----------------------	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant, 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

number.						_
$\overline{}$	Substitute for	form 1449/	PTO		Complete If Known	1
	INFORMATIO	N DISCLO	SURE	Application Number	09/896,797	
	STATEMENT	BY APPLI	CANT	Filing Date	6/29/2001	
	D 1: 0 1: -11: -1:		44 0000	First Named Inventor	John Trezza	
	Date Submitted:	November	14, 2006	Art Unit	2613	
	(use as many sh	eets as ne	cessary)	Examiner Name	Agustin Bello	
Sheet	7	of	10	Attorney Docket Number	088245-4667	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		Copy of the International Search Report for PCT/US2002/022089 mailed on November 5, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/022089 completed on March 28, 2003.	
		Copy of the International Search Report for PCT/US2002/022091 mailed on December 17, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/022091 completed on April 19, 2004.	
		Copy of the International Search Report and Written Opinion for PCT/US2004/034603 dated October 6, 2006.	
		Copy of the International Search Report for PCT/US2002/022291 mailed on November 7, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/022291 completed on February 25, 2003.	
		Copy of the International Search Report for PCT/US2002/22087 mailed on November 12, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/022087 completed on March 7, 2003.	
		Copy of the International Search Report for PCT/US2002/022292 mailed on January 30, 2003.	
		Copy of the International Preliminary Examination Report for PCT/US2002/022292 completed on March 7, 2003.	
		Copy of the International Search Report for PCT/US2002/022293 mailed on November 7, 2002.	
		Copy of the International Preliminary Examination Report for PCT/US2002/022293 completed on April 7, 2003.	
		Copy of the International Search Report for PCT/US2002/019887, mailed on November 5, 2002.	
		Copy of the International Search Report for PCT/US2002/020687 mailed on October 2, 2002.	
		Copy of the Written Opinion for PCT/US2002/020687 mailed on April 25, 2003.	
		Copy of the International Preliminary Examination Report for PCT/US2002/020687 completed on July 23, 2003.	
		Copy of the International Search Report and Written Opinion for PCT/US2006/23248 mailed on July 3, 2008.	

Examiner Signature	Date Considered	J
*EXAMINER: Initial if reference considered, whether or not cita	on is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.	nte

include copy of his form with next communication to applicate. It applicants institute colors of his form with next communication to applicate in the present of the presen

process) an application. Confidentially is governed to 15 to 1.0.5 or 2 and 37 GPR 1.16. This collection is estimated to take 2 roots to complete, including pathetine, preparing, and exhalling the complete of the complete

U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

	Substitute for	form 1449/F	PTO		Complete if Known	
	INFORMATIO	N DISCLO	SURE	Application Number	09/896,797	
	STATEMENT			Filing Date	6/29/2001	
	D + D + 10-4		44 0000	First Named Inventor	John Trezza	
	Date Submitted: I	November	14, 2008	Art Unit	2613	
	(use as many sh	eets as ne	cessary)	Examiner Name	Agustin Bello	
Sheet	8	of	10	Attorney Docket Number	088245-4667	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т6
		Copy of the International Search Report and Written Opinion for PCT/US2006/023363, mailed on July 2, 2008.	
		Copy of the International Search Report and Written Opinion for PCT/US2006/23246, mailed on July 3, 2008.	
		Copy of the International Search Report and Written Opinion for PCT/US2006/023368, mailed on July 11, 2008	
		Copy of the International Search Report and Written Opinion for PCT/US2008/064136, mailed on September 26, 2008.	
		Aoki et al., "Parallel and Bi-Directional Optical Interconnect Module Using Vertical Cavity Surface Emitting Lasers (VCsels) and 3-D Micro Optical Bench (MOB)", 1999 Digest of the LEOS Summer Topical Meetings, Nanostructures and Quantum Dots/WDM Components/VCSELs and Microcavaties/RF Photonics for CATV and HFC Systems, 1999, pp. 9-10.	
		Arnoson, L.B. et al., "Low-cost Multimode WDM for Local Area Networks Up to 10 Gb/s", IEEE Photonics Technology Letters, V. 10 No. 10 (Oct. 1998), pp. 1489-1491.	
		Ayliffe et al., "Optomechanical Electrical and Thermal Packaging of Large 2D Optoelectronic Device Arrays For Free-Space Optical Interconnects", Proceedings of SPIE: Optics in Computing '98, V. 3490 (May 1998), Dp. 502-505.	
		Basavanhally et al. "Optoelectronic Packaging of Two-Dimensional Surface Active Devices", IEEE Transactions on Components, Packaging, and Manufacturing Technology – Part B: Advanced Packaging, V. 19 No. 1 (February 1996), pp. 107-115.	
		Boisset et al., "On-Die Diffractive Alignment Structures for Packaging of Microens Arrays with 2-D Optoelectronic Device Arrays", IEEE Photonics Technology Letter, V. 8 No. 7, July 1996, pp. 918-920.	
		Chou et al., "Multilayer High Density Flex Technology", Electronic Components and Technology Conference: 1999 Proceeding, June 1-4, 1999, pp. 1181-1189.	
		Cryan, C.V., "Two-Dimensional Multimode Fibre Array for Optical Interconnects", IEEE Electronic Letters Online, V. 34, No. 6 (March 1998), pp. 586-587.	
		Datta et al., "A Low-cost Electroless Plating Method for Producing Flip-chip Bondable and Wire-bondable Circuit Pads for Smart Pixel Application", <i>IEEE Lasers and Electro-Optics Society Annual Meeting, LEOS</i> 98, Orlando Florida, December 1-4, 1998, pp. 99-100.	
		Fiore, A. et al. "Postgrowth Tuning of Semiconductor Vertical Cavities for Multiple-Wavelength Laser Arrays", IEEE Journal of Quantum Electronics, V. 35 No. 4 (April 1999), pp. 616-623.	
		Geib, K.M. et al. "Monolithically Integrated VCELs and Photodetectors for Microsystem Applications", Lasers and Electro-Optics Society Annual Meeting, IEEE, Orlando, December 1-4, 1998, V. 2, pp. 27-28.	

Examiner	Date
Signature	Considered

EXAMINET: tritial if reference considered, whether or not citation is in conformance with MPEP R03. Draw line through classion if not in conformance and not considered, because only of this form with next connermunication to application. I. Applicant's unusue castion designation number (opinional). 2 See Kinds Codes of INSPIP of Jacet Documents at www.inpto.gov or MPEP 90.10.4.3 Enter Office that issued the document, by the two-letter code (WPIO Standard ST.3.). 4 For Japanese patent documents, it is indicated on the war of the religion of the Emporer or must precede the senior number of the patent document. S find of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1.61 possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required to Section 13.9. The information is required to before it when the very service is the control of the cont

This collection of information is required by 3T CFR 1.97 and 1.88. The information is required to obtain or relain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.4. This collection is estimated to lake 2 hours to complicating gathering, repeating, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complied this form and/or suggestions for reducing this burder, should be sent to the Chief Information Officer; U.S. Platent and Trademark Office, P.O., Box 1450, Alexandria, VA 22313-4450. DNOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-4450.

U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF COMMENT
U.S. Patent and Trademark Office: U.S. DEPAR MENT OF U.

	Substitute for form 1449/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			SURE	Application Number	09/896,797		
				Filing Date	6/29/2001		
				First Named Inventor	John Trezza		
Date Submitted: November 14, 2008 (use as many sheets as necessary)			14, 2008	Art Unit	2613		
			cessary)	Examiner Name	Agustin Bello		
Sheet	9	of	10	Attorney Docket Number	088245-4667		

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
		Giboney, K.S., "Parallel-Optical Interconnect Development at HP Laboratories", Proceedings of SPIE: Optoelectronic Interconnects and Packaging IV, V. 3005 (April 1997), pp. 193-201.	
		Goldstein et al., "Fluxless Flip-Chip for Multichip Modules", IEEE Multi-Chip Module Conference Proceedings, Santa Cruz CA, Feb. 6-7, 1996, pp. 39-43.	
		Hall et al., "Packaging of VCSEL, MC-LED and Detector 2-D Arrays", IEEE: Electronic Components and Technology Conference, Seattle WA, May 25-28, 1998, pp. 778-782.	
		Haysahi et al., "Optical Module with MU Connector Interface Using Self-Alignment Technique by Solder-Bump Chip Bonding", Electronic Components and Technology Conference, Orlando FL, May 28-31, 1996, pp. 13-19.	
		Imler et al., "Precision Flip-chip Solder Bump Interconnects for Optical Packaging", IEEE Electronic Components and Technology Conference, San Diego CA, May 18-20, 1992, pp. 508-512.	
-		Ishida et al., "Two-Dimensionally Arranged 24-Fiber Optical Connectors", Conference on Optical Fiber Communication: OFC '97, Dallas Texas, Feb. 16-21, 1997, pp. 189-190.	
		Jöhnck et al., "8X8 POF Based Interchip Interconnection with 2.5 Gbit/s Per Channel Data Transmission", 24th European Conference On Optical Communication, Madrid Spain, September 20-24, 1998, pp. 35-36.	
		Kosaka et al., "Plastic-Based Receptacle-Type VCSEL-Array Modules with One and Two Dimensions Fabricated Using the Self-Alignment Mounting Technique", 47th Proceedings of the IEEE Electronic Components and Technology Conference, San Jose CA, May 18-21, 1997, pp. 382-399.	
		Koyabu et al. "Fabrication of Two-Dimensional Fiber Arrays Using Microferrules", IEEE Transaction on Components, Packaging, and Manufacturing Technology: Part C, V 21, No. 1 (Jan. 1998), pp. 11-19.	
		Kudo et al., "Multiwavelength Microarray Semiconductor Lasers", Electronics Letters, IEEE Stevenage, V. 34, No. 21, October 15, 1998, pp. 2037-2038.	
		Lee et al. "Self-Aligned Integration of 8 x 1 Micromachined Micro-Fresnel Lens Arrays and 8 x 1 Vertical Cavity Surface Emitting Leser Arrays for Free-Space Optical Interconnect," <i>Electron Devices Meeting</i> , <i>IEDM 94 Technical Digest, International</i> , San Francisco, December 11-14, 1994, pp. 761-764.	
		Liu et al., "Design, Implementation and Characterization of a Hybrid Optical Interconnect for a Four-Stage Free-Space Optical Backplane Demonstrator", <i>Applied Optics</i> , V. 37 No. 14 (May 10, 1998), pp. 2895–2914.	
		MacDougal et al., "Wavelength Shift of Selectively Oxidized A1,vOy-A1GaAs-GaAs Distributed Bragg Reflectors" Photonics Technology Letters, IEEE, V. 9, No. 7 (July 1997), pp. 884-886.	

Examiner	Date
Signature	Considered
*EXAMINER: Init	al if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. is form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents

Include copy of this form with next communication to applicant. I Applicant's unique citation designation number (optional). 2 See Kinst Codes of USH 'UP Patent Documents at www.uspis.gov.ov MFEP 001.04. 3 Einer Office that is stude the document, by the host best code (VMPO Stardard ST.). 4 For Japanese pater documents, the indication of the value of the relign of the Emporor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the value of the relignost of the relignost of the relignost and the patent of the relignost of the relignost and the patent of the relignost of the relignost and the religionst and t

process; an apprication. Combinemativity is governed by 30 U.S. 1.7.2 and 37 CFX 1.14. Into covercious is established to large 2 mount of completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount patientine, preparing this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patient and Trademan Officer, P.O. Box 1450, Mexandria, VA 22373-1450.

PTO/SB/08 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMENT
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

Substitute for form 1449/PTO			PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/896,797	
				Filing Date	6/29/2001	
Date Submitted: November 14, 2008 (use as many sheets as necessary)			44.0000	First Named Inventor	John Trezza	
			14, 2008	Art Unit	2613	
			cessary)	Examiner Name	Agustin Bello	
Sheet	10	of	10	Attorney Docket Number	088245-4667	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		Maj et al., "Interconnection of a Two-Dimensional Array of Vertical-Cavity Surface-Emitting Lasers to a Receiver Array by Means of a Fiber Image Guide," <i>Applied Optics</i> , V. 39 No. 5 (Feb. 10, 2000), pp. 683-689.	
		McCormick, F.B., "Smart Pixel Optics and Packaging", IEEE/LEOS 1996 Summer Tropical Meeting: Advanced Applications of Lasers in Materials Processing, 1996/Broadband Optical Networks/Smart Pixels/Optical MEMs and Their Applications, August 5-9, 1996, pp. 45-46.	
		Ohki et al., "Multi-Channel Optical Coupling Between VCSEL Arrays and Multimode Optical Fibers for a 40- Channel Parallel Optical Interconnection Module," 1998 IEEE/LEOS Summer Topical Meetings: Broadband Optical Networks and Technologies: An Emerging RealityOptical MEMS/Smart Pixels/Organic Optics and Opticelectronics, Monterey CA, July 20-24, 1998, pp. 47-48.	
		Ouimet et al. "Wirebonding PBGA Manufacturing Challenges From Fine to Ultrafine Pitch," Future Fab International, pp. 297-301, accessed 8/27/2008 at http://webarchive.org/web/20010711092112/http://www.chips.ibm.com/products/interconnect (12 pages). Proudley et al., "Fabrication of Two Dimensional Fiber Optic Arrays for an Optical Crossbar Switch," Optical	
		Engineering, V. 33 No. 2 (Feb 1994), pp. 627-635. Pu, R., et al., "Thermal Resistance of VCSEL's Bonded to Integrated Circuits," <i>IEEE Photonics Technology Letters</i> , IEEE Inc., New York, V. 11, No. 12, December 1999, pp. 1554-1556.	
		Sasian et al., "Fabrication of Fiber Bundle Arrays for Free-Space Photonic Switching Systems," Optical Engineer, V. 33 No. 9 (Sept. 1994), pp. 2979-2985.	
		Söchtig et al. "Replicated Plastic Optical Components for Optical Micro Systems," 1998 IEEE/LEOS Summer Topical Meetings: Broadband Optical Networks and Technologies: An Emerging Reality/Optical MEMS/Smart Picels/Organic Optics and Optolectronics, Monterey CA, July 20-24, 1998, pp. 37-38.	
		Tooley, F.A.P., "Challenges in Optically Interconnecting Electronics", IEEE Journal of Selected Topics in Quantum Electronics", V. 2, No. 1 (April 1996), pp. 3-13.	

Examiner Signature	Agustin Bello/ (06/30/2010)	Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation if not in incoformance and considered include copy of this form with next communication to applicant. It Applicant's unique citation designation number (optional), 2 See Kinds Cybes of USPTO Patent Documents at www.upsp.gov or MPEP 901.04. Extent Office that issued the document, by the whoteleter code (WIPO Standard ST.3), 4 For Japanese patent documents, the indication of the year of the reign of the Emporor must precede the serial number of the patent document. Sind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1 of Japanese patent documents.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to fite (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S. C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering presenting, processing, and submitting the completed application from the USPTO. Time will vary depending upon the individual case. Any comments to the amount of time by output is completed application from the USPTO. Time will vary depending upon the individual case. Any comments to the amount of time by output is completed application from the USPTO. Time will vary depending upon the individual case. Any comments to the amount of time by output is completed application for the USPTO. The will vary depending upon the individual case. Any comments to the amount of time by output is completed and submitted the process of the USPTO. The Will vary depending upon the individual case. Any comments to the Part of the process of the USPTO. The Will vary depending upon the individual case. Any comments to the Part of the Part of the USPTO. The Will vary depending upon the individual case. Any comments to the Part of the Part of